

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/GB2004/002493A- CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/138 A61K45/06 A61K31/55 A61K31/343

According to International Patent Classification (IPC) or to both national classification and IPC

B- FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, CHEM ABS Data, BIOSIS, MEDLINE, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 200 607 B1 (BRIDGEMAN KEITH) 13 March 2001 (2001-03-13) claims 1-3 column 4; example 1	1,2,6,8, 10,14
X	----- DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SENSBA, JUNICHI ET AL: "Evaluation of antidepressant properties of monoamine precursors by the forced-swimming test in mice" XP002297603 retrieved from STN Database accession no. 1988:563333 abstract & YAKUBUTSU, SEISHIN, KODO, 8(1), 87-8 CODEN: YSKODB; ISSN: 0285-5313, 1988, ----- -/-	1,2,6,8, 10,14

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

24 September 2004

Date of mailing of the international search report

12. 01. 2005

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PCT/GB2004/002493

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 096 317 A (DESANTIS DEBBIE A ET AL) 1 August 2000 (2000-08-01) column 1, line 11 - line 54 -----	1,2,6,8, 10,14
X	WO 01/85165 A (ECKERT GUENTHER P ; HASSELWANDER OLIVER (DE); BASF AG (DE); KRAEMER KL) 15 November 2001 (2001-11-15) claims 1,4,5 -----	1,2,6,8, 10,14
X	BECKMANN H ET AL: "DL-PHENYLALANINE IN DEPRESSED PATIENTS: AN OPEN STUDY" JOURNAL OF NEURAL TRANSMISSION, SPRINGER VERLAG, VIENNA, AT, vol. 41, 1977, pages 123-134, XP000612721 ISSN: 0300-9564 page 131, paragraph 1 - page 132, paragraph 1 -----	1,2,6,8, 10,14
X	EP 1 112 693 A (QUEST INT) 4 July 2001 (2001-07-04) abstract -----	8,10,14
X	DATABASE WPI Section Ch, Week 200252 Derwent Publications Ltd., London, GB; Class B05, AN 2002-482614 XP002297704 & JP 2002 078463 A (BIOENERGENE CO LTD) 19 March 2002 (2002-03-19) abstract -----	8,10,14
X	PICKAR D ET AL: "TYRAMINE INFUSIONS IN BI POLAR ILLNESS BEHAVIORAL EFFECTS AND LONGITUDINAL CHANGES IN PRESSOR SENSITIVITY" AMERICAN JOURNAL OF PSYCHIATRY, vol. 136, no. 11, 1979, pages 1460-1463, XP008035917 ISSN: 0002-953X abstract page 1462, column 2, paragraph 3 -----	1,2,6,8, 10,14
P,X	WO 03/049687 A (WELLER HEALTH INC ; HOWARD LAWRENCE (US); EHRENPREIS SEYMOUR (US)) 19 June 2003 (2003-06-19) claims 1,140 -----	1,2,6,8, 10,14

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International application No.
PCT/GB2004/000000

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1, 2, 6, 8, 10, 14 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,6,8,10,14 (partially)

Use for treating depression of a "C",
wherein:
C is a precursor or inducer of a neurotransmitter, in particular L-phenylalanine, L-tyrosine, tyramine.

2. claims: 1-5,8-13,16-20,23 (partially)

Use for treating depression of
A and B
wherein:
A is an antidepressant, in particular lofepramine, fluoxetine, citalopram, paroxetine;
B is vitamin B12.

3. claims: 1-4,6,8-12,14,16-19,21,23 (partially)

Use for treating depression of
A and C,
wherein:
A is an antidepressant, in particular lofepramine, fluoxetine, citalopram, paroxetine;
C is a precursor or inducer of a neurotransmitter, in particular L-phenylalanine, L-tyrosine, tyramine.

4. claims: 1-4,8-11,16-19,23 (partially), 7,15,22

Use for treating depression of
A and C'
wherein:
A is an antidepressant, in particular lofepramine, fluoxetine, citalopram, paroxetine;
C' is L-tryptophan.

5. claims: 1,2,5,6,8-10,13,14,16,17,20,21,23 (partially)

Use for treating depression of
B and C, or C'
wherein:
B is vitamin B12;
C is a precursor or inducer of a neurotransmitter, in particular L-phenylalanine, L-tyrosine, tyramine;
C' is L-tryptophan.

6. claims: 1-6,8-14,16-21,23 (partially)

use for treating depression of
A, B and C, or C'
wherein:
A is an antidepressant, in particular lofepramine,
fluoxetine, citalopram, paroxetine;
B is vitamin B12;
C is a precursor or inducer of a neurotransmitter, in
particular L-phenylalanine, L-tyrosine, tyramine;
C' is L-tryptophan.

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 International Application No.
 PCT/GB2004/00249

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